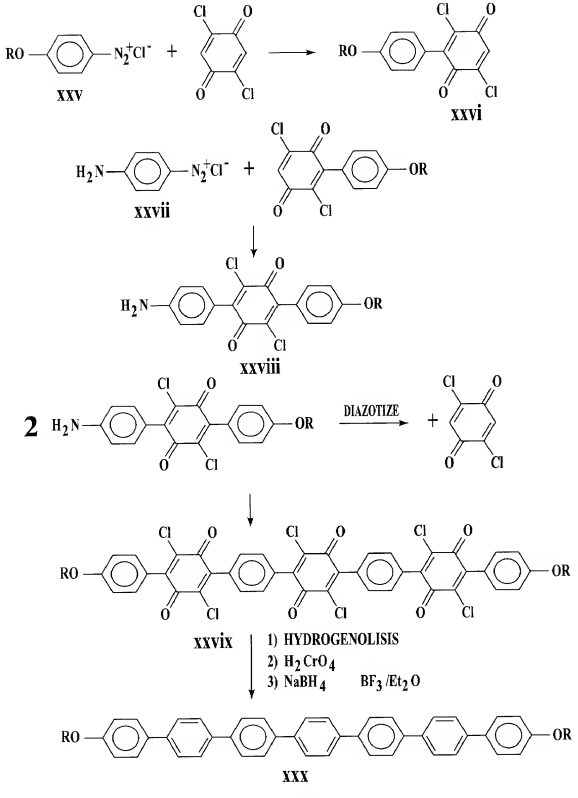

RO
$N_2^+Cl^-$
XXV
Cl
O
XXVI
H_2N
XXVII
OR
XXVIII
2
DIAZOTIZE
XXVIX
1) HYDROGENOLISIS
2) H_2CrO_4
3) $NaBH_4$
BF_3/Et_2O
XXX

Fig. 1.

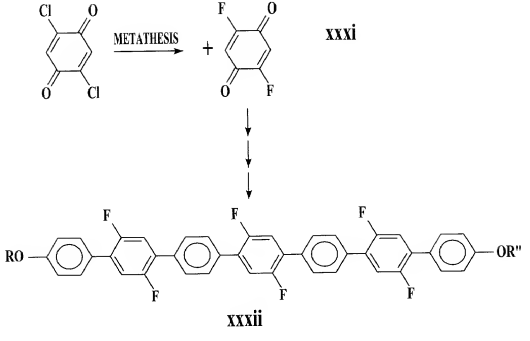


Fig. 2.

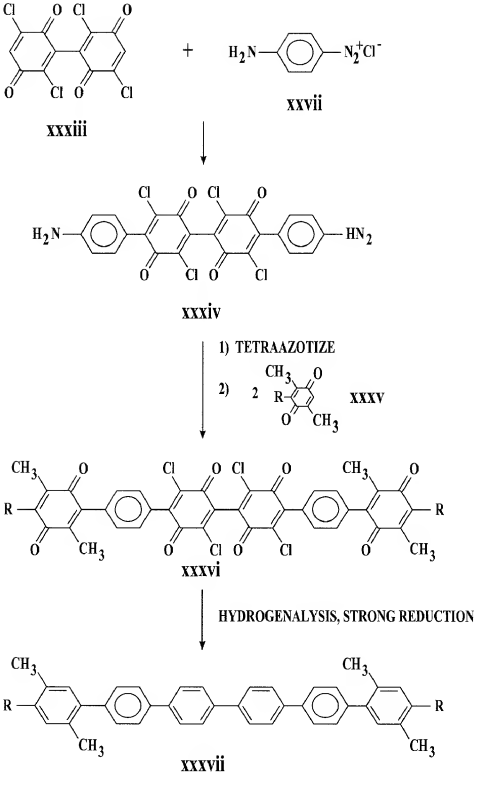

xxxiii
xxvii
xxxiv
1) TETRAAZOTIZE
2)
xxxv
xxxvi
HYDROGENALYSIS, STRONG REDUCTION
xxxvii

Fig.3.

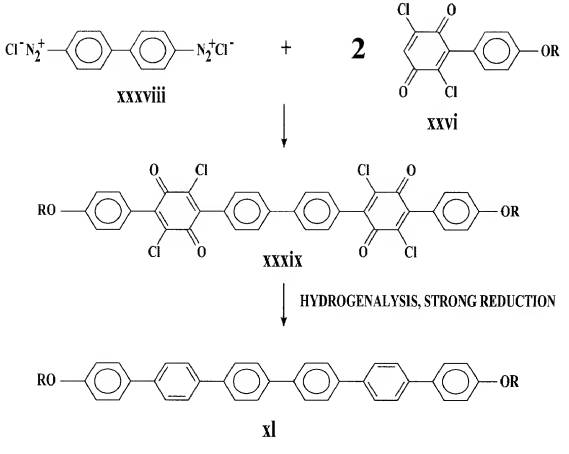

xxxviii
+
2
xxvi
RO
OR
xxxix
HYDROGENALYSIS, STRONG REDUCTION
RO
OR
xl

Fig. 4.

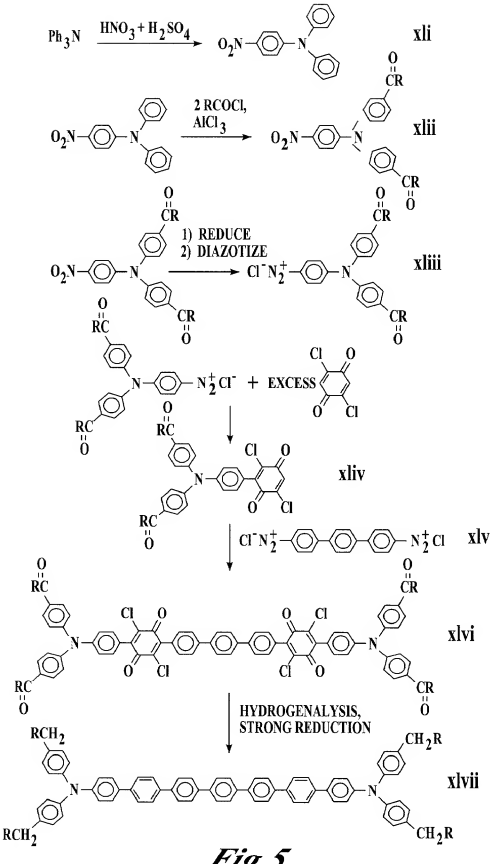

Ph3N
HNO3 + H2SO4
xli
2 RCOCl,
AlCl3
xlii
1) REDUCE
2) DIAZOTIZE
xliii
+ EXCESS
xliv
xlv
xlvi
HYDROGENALYSIS,
STRONG REDUCTION
xlvii

Fig. 5.

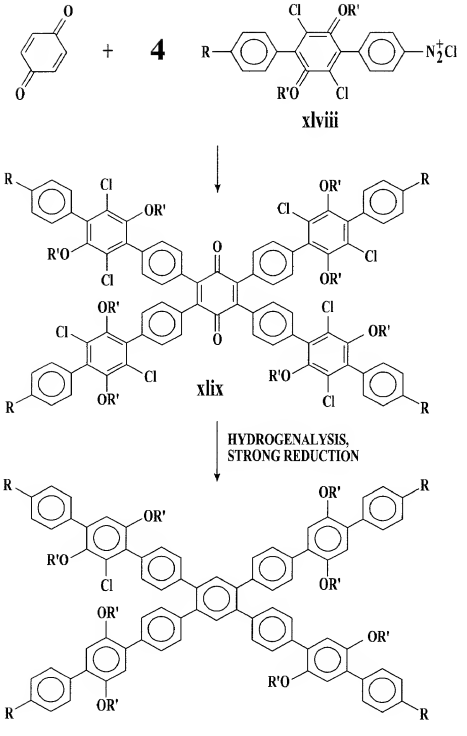


Fig. 6.

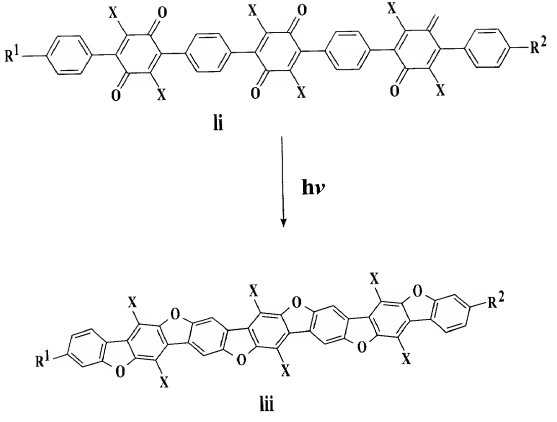


Fig. 7.

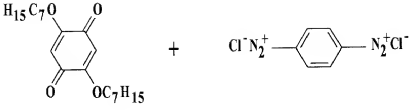
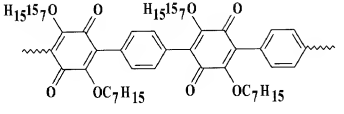
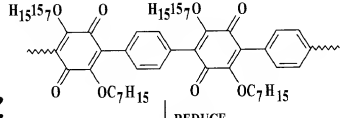


Fig. 8A.



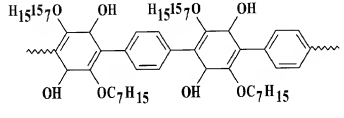
liii



liii

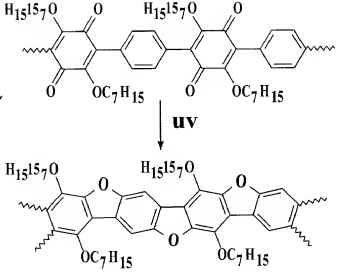
Fig. 8B.

REDUCE



liv

Fig.8C.



liii

Iv

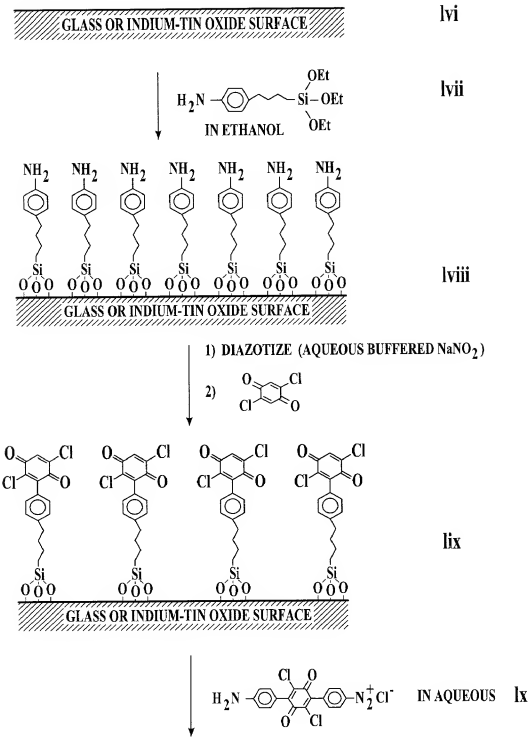

GLASS OR INDIUM-TIN OXIDE SURFACE
lvi
IN ETHANOL
lvii
lviii
GLASS OR INDIUM-TIN OXIDE SURFACE
1) DIAZOTIZE (AQUEOUS BUFFERED NaNO2)
2)
lix
GLASS OR INDIUM-TIN OXIDE SURFACE
IN AQUEOUS
lx

Fig. 9A.

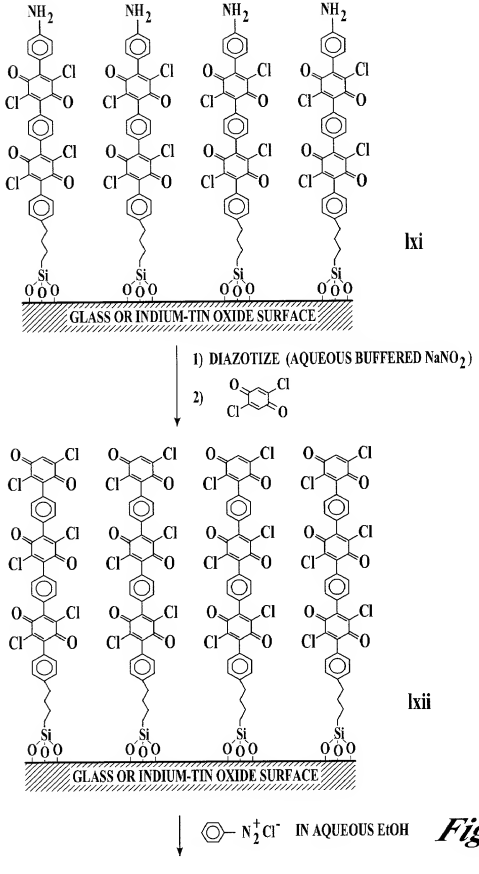
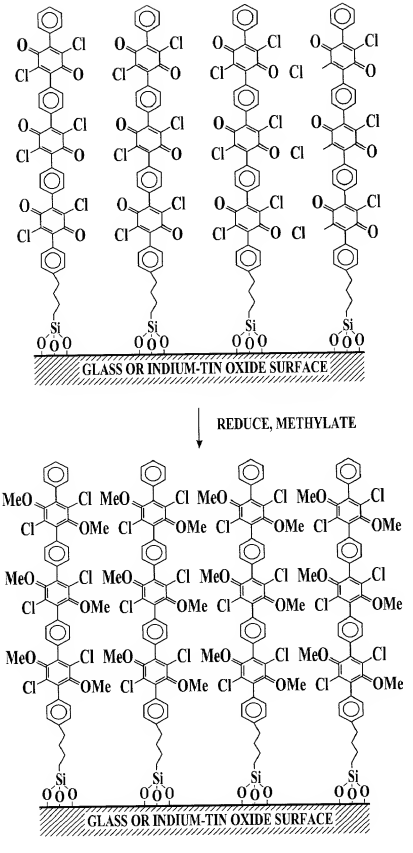

lxi
GLASS OR INDIUM-TIN OXIDE SURFACE
1) DIAZOTIZE (AQUEOUS BUFFERED $NaNO_2$)
2)
lxii
GLASS OR INDIUM-TIN OXIDE SURFACE
$N_2^+Cl^-$ IN AQUEOUS EtOH

Fig. 9B.



lxiii

lxiv

Fig. 9C.

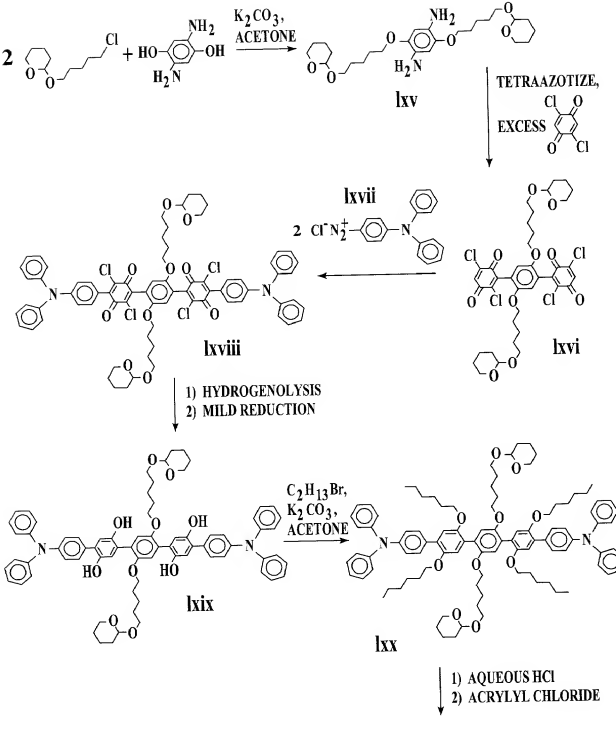
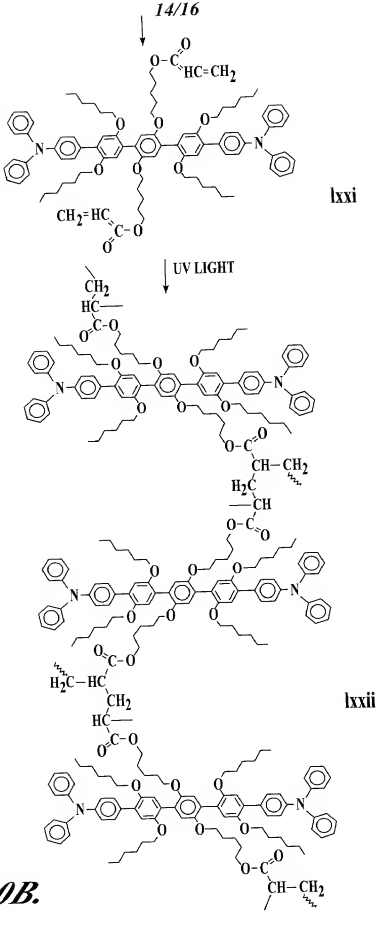

2
K_2CO_3, ACETONE
lxv
TETRAAZOTIZE,
EXCESS
lxvii
2 $Cl^-N_2^+$
lxviii
lxvi
1) HYDROGENOLYSIS
2) MILD REDUCTION
lxix
$C_2H_{13}Br$, K_2CO_3, ACETONE
lxx
1) AQUEOUS HCl
2) ACRYLYL CHLORIDE

Fig. 10A.



lxxi

lxxii

Fig. 10B.

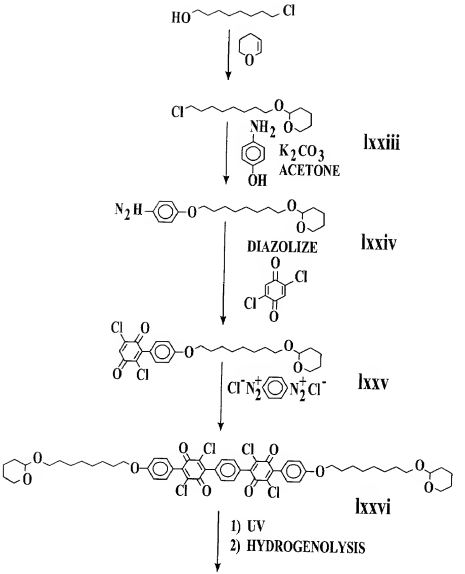

HO
Cl
Cl
O
O
NH2
O
K2CO3
ACETONE
OH
lxxiii
N2H
O
O
DIAZOLIZE
lxxiv
O
Cl
Cl
O
Cl
O
O
Cl
Cl
O
O
Cl
Cl-N2+
N2+Cl-
lxxv
O
O
O
Cl
Cl
Cl
O
O
O
O
O
O
Cl
O
O
Cl
lxxvi
1) UV
2) HYDROGENOLYSIS

Fig. 11A.

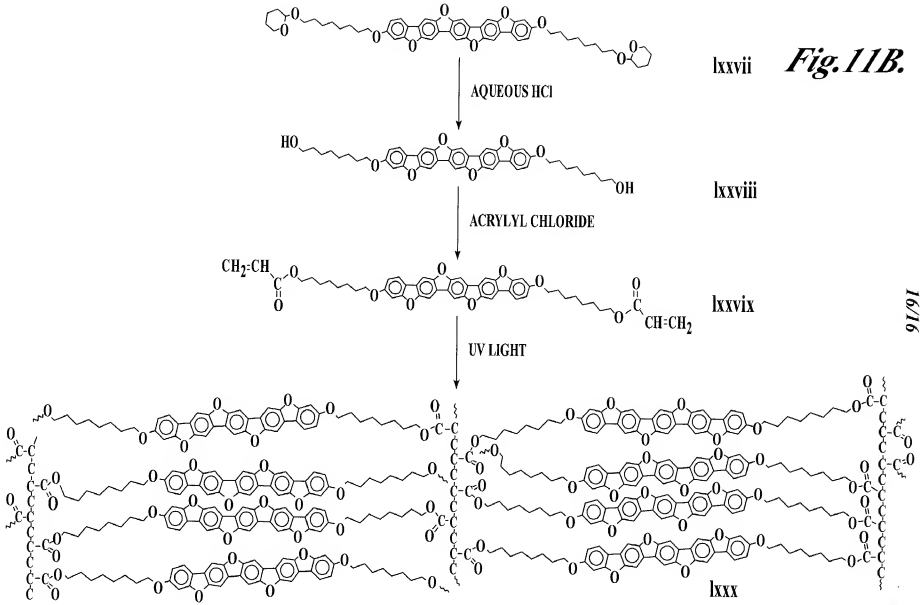


Fig.11B.